

## MASSTOR SYSTEMS ANNOUNCES WORLD'S HIGHEST DENSITY DATA PROCESSING STORAGE SYSTEM

### *FOR IMMEDIATE RELEASE*

London, England, September 21st 1988 - Masstor Systems Corporation today announced an erasable, on-line mass storage system and storage module forming the highest density commercially available storage subsystem in the data processing world. The **M960 Mass Storage System** and the **M1000 Storage Module** can be configured to provide up to 6220 gigabytes (6.22 terabytes) per subsystem of on-line storage in a very limited floor space.

To store an equal amount of data on the most dense on-line disk storage system available would require more than 130 times the space needed by the M960/M1000. Automated Tape Libraries (ATLs) would take approximately 15 times more space, yet have slower performance characteristics.

Key to the M960/M1000 system's unprecedented capacity is an erasable helical-scan recording technology which provides greater density and throughput, and lower cost storage than any other data processing storage technology.

Consistent with IBM's *(i/m)* Systems Managed Storage strategy, the M960 and M1000 support a hierarchical data storage scheme. Users can move less frequently used data from disk to the M960 - maintaining quick access, yet reducing storage costs - and move infrequently used data to the M1000 for archiving.

According to David R. Addison, Masstor's Chairman and Chief Executive Officer, "In light of growing concerns about data processing centre floor space and cost management, we believe the M960 and the M1000 represent a new standard by which storage capacity and price/performance will be measured."

The M960 system, which represents Masstor's next-generation mass storage system after the M860, consists of the M962 Storage Controller, the M961 Storage Module, Storage Management Task (SMT) host software and an optional hardware Data Compression feature. For an average data compression ratio, this feature can double the effective capacity and throughput of the subsystem.

The M962 Storage Controller serves as the communications interface between the M960 and the SMT software running on the host. Each controller can hook up to as many as four IBM or IBM plug-compatible central processors running the MVS operating system using data streaming channel protocols at up to 4.5 megabytes per second. By using high-speed channel extenders, a controller can operate at channel speed as far as 3 kilometres from the host.



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The M961 Storage Module provides both rapid access to individual data cartridges and fast access to specific data within a cartridge. The module has an average fetch time of 2.8 seconds per cartridge and can position to the mid-point of a cartridge in 3.2 seconds. Each M961 Storage Module holds 316 data cartridges of 350 megabytes each, giving a total capacity of 110 gigabytes per module.

An M960 system can accommodate one or two controllers and up to eight storage modules.

The SMT software, residing on the host processor, performs a variety of system storage management tasks including maintaining locations of data cartridges and files both on-line and off-line, and error recovery.

The new M1000 Storage Module extends the capabilities of the M960 by further reducing the cost of on-line storage and by adding new applications to the ones now supported by the M960.

Each M1000 module provides 1 terabyte of data storage in 0.7 square metres of floor space. Each data cartridge stores approximately 32 gigabytes of data, which is about 160 times the capacity of current IBM 3840 cartridges.

A fast, reliable robotic accessor retrieves and loads cartridges in approximately seven seconds.

The M1000 was developed jointly by Masstor Systems and Datatype Corporation, a subsidiary of Eastman Kodak, which specialises in helical-scan technology.

Shipments of the M960 systems are scheduled to begin in the first quarter of 1989, while shipments of the M1000 will begin in the fourth quarter of 1989.

Masstor Systems Corporation, with offices in New York, Chicago, Santa Clara, California, Washington DC, and all major European countries, designs, manufactures and markets data storage systems that combine helical-scan recording technology, advanced storage management software and robotics-controlled media handling. Masstor's customers are the world's largest data processing users in a variety of industries including banking, insurance, aerospace, manufacturing, telephone and transportation, as well as government agencies, universities and research organisations. To date, there are more than 300 storage modules installed worldwide.

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## STANDARD LIFE ASSURANCE ORDERS MASSTOR M960 MASS STORAGE SYSTEM

### *FOR IMMEDIATE RELEASE*

London, England, September 28th. 1988 – Masstor Systems International today announced that Standard Life Assurance Company, the largest mutual life assurance company in the EEC, has placed the first UK order for Masstor's new M960 Mass Storage System.

The M960 system will be installed in Standard Life's Edinburgh headquarters and the order is valued at over £900,000.

The logical storage capacity of the M960 is in the order of 660 gigabytes. Despite its massive capacity, the system, because of its compact design, occupies only 42 square feet of space. "This significant combination of substantial performance and dramatic space saving provides another means of meeting our growth plans in the 1990's", said Rodger Hepburn, a Senior Systems Programmer for Standard Life.

Mr. Hepburn added: "The rapid growth of Standard Life's computing operation, which now includes IBM 3090-600E and 3090-400E processors that share over 200 gigabytes of DASD, has resulted in the need for faster and fully automated backup facilities."

Masstor Systems Corporation designs, manufactures and services strategic systems solutions for information management within large corporations.

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